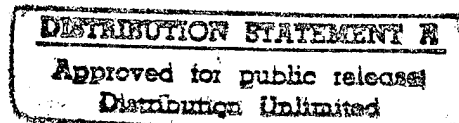1996 MAR -4 A 10: 13

February 28, 1996

Scott Spetka
Computer Science Department
SUNY Institute of Technology
P.O. Box 3050
Utica, New York 13504-3050
(315)792-7537
scott@cs.sunyit.edu

Ms. Angela N. Potter
Department of the Navy
Office of Naval Research
Resident Representative
495 Summer Street, Room 103
Boston, MA 02210-2109

MBD
4330
Ser 551
18 October 1995

Dear Ms. Potter:

Enclosed you will find the reports required by contract
F30602-95-C-0147. The reports have also been delivered to John Salerno who
supervised this work at the Air Force Rome Laboratory. Please contact me if
you require any aditional information.

Sincerely,

Scott Spetka

DTIC QUALITY INSPECTED 4

19960812 132

Enclosures:

100-Day Contract Report (August 30, 1995)
Quarterly Contract Report (November 30, 1995)
Final Contract Report (January 6, 1996)

FINAL Contract Report
Contract Number: F30602-95-C-0147
Using Internet Protocols
for Client/Server Retrieval and Display
in a Text/Graphic Database
Scott Spetka - Principal Investigator
January 6, 1996

Section 1 - Introduction

This report describes changes in the INTELINK system that have been developed under
contract F30602-95-C-0147 and other activities that also took place during that contract
period. The period covered is from December 1, 1995 through January 6, 1996. During
this period, most of the development effort centered around cleaning up the documenta-
tion and source code developed under the contract and planning for future applications.
John Gates was hired in the final reporting period to help with documentation and system
maintenance.

Section 2 describes how the INTELINK system can be extended to provide access to
other databases in addition to IPA. Section 3 summarizes the results produced from the
contract. Section 4 provides an assessment of issues that will become increasingly
important to future INTELINK developments.

Section 2 - The INTELINK Architecture and Multi-Database Access

Figure 1 illustrates INTELINK Openserver support for access to multiple Sybase databases. through the INTELINK system.
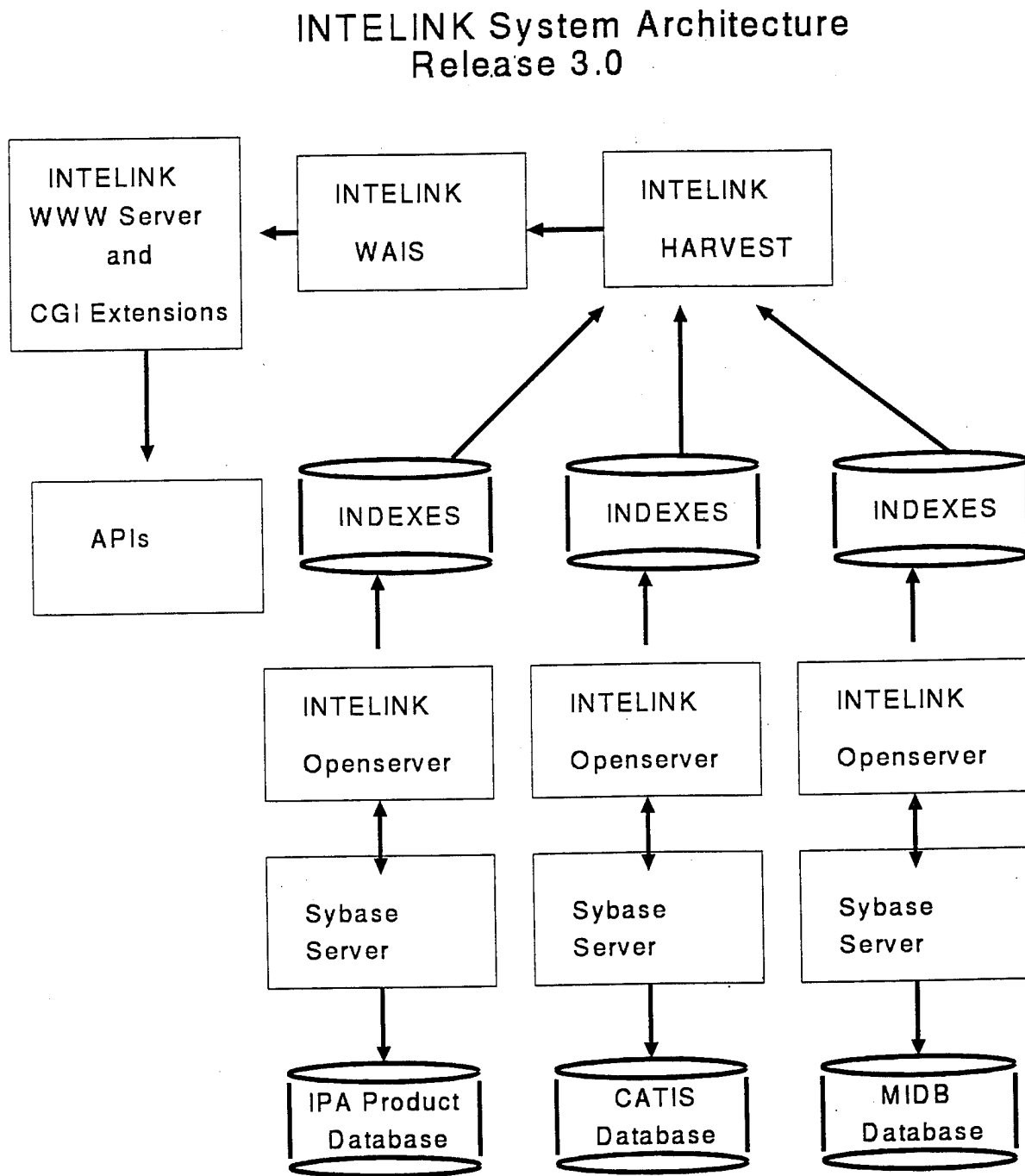
INTELINK System Architecture
Release 3.0

Figure 1 - INTELINK Multi-Database Access

Section 3 - Summary of Results

The main goals of the contract were accomplished. Under the direction of Mr. John Salerno, Head of the INTELINK development project, the emphasis on specific tasks required by the contract was determined to optimally meet the demands of the overall development effort. The major accomplishments achieved under the contract are documented in the quarterly reports.

Section 4 - Future Development of INTELINK

A major increase in effort needs to be assigned to testing and analysis of scaling issues for the INTELINK architecture. The number of sites running INTELINK is growing quickly and the system is being used in production mode. Introduction of additional databases under the INTELINK system will lead to changes in the architecture to avoid potential performance problems.